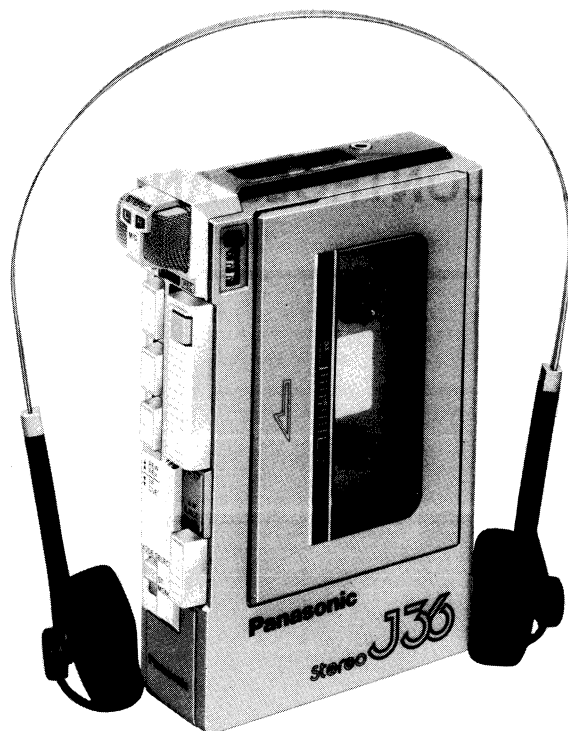


Service Manual

Stereo Mini Cassette Recorder/Player

Mini Cassette

RQ-J36
(Silver)


This is the Service Manual for the following areas.

☐ For all European areas.

RQ-335 MECHANISM SERIES

Specifications

Power requirement:	Battery; 6V (four "R6" size dry batteries) Car battery; with optional car/boat adaptor RP-917
Motor:	Electrical governor motor
Frequency range:	70 — 10,000 Hz
Track system:	4-track 2-channel stereo recording and playback Stereo playback with stereo headphones
Tape speed:	4.8 cm/s
Fast forward and rewind time:	Approx. 150 seconds with C-60 cassette tape
Inputs:	MIC; sensitivity 0.25 mV, applicable microphone impedance 200Ω — 600Ω DC in; 6V
Output:	HEADPHONES; output level 560 mV over (at 16Ω)
Heads:	1 super permalloy head for record/playback 1 erase head
Dimensions:	95.5 mm(W) × 147.5 mm(H) × 36.0 mm(D)
Weight:	440 g, without batteries

Specifications are subject to change without notice.

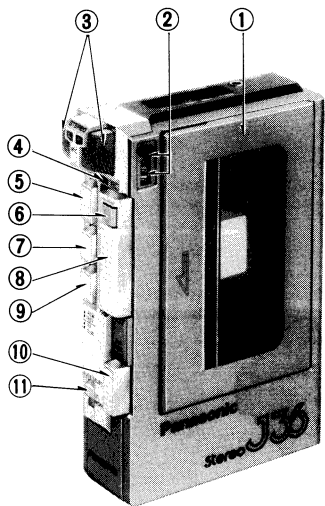
Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

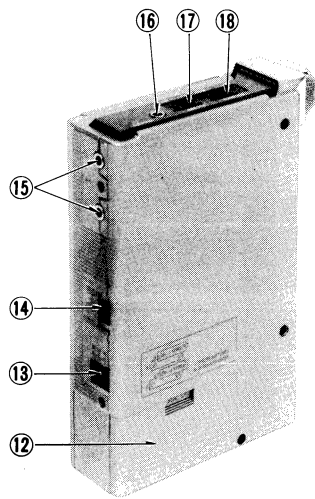
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LOCATION OF CONTROLS AND COMPONENTS



- ① Cassette compartment cover
- ② Tape counter and reset button
- ③ Built-in microphone
- ④ Battery-check lamp
- ⑤ Stop button
- ⑥ Record button
- ⑦ Rewind/review button
- ⑧ Playback button
- ⑨ Fast forward/cue button



- ⑩ Eject/pause button
- ⑪ Stereo/mono select switch
- ⑫ Battery cover
- ⑬ DC IN jack
- ⑭ Playback equalizer/tone control switch
- ⑮ Microphone jack
- ⑯ Headphones jack
- ⑰ Volume control
- ⑱ Balance volume control

DISASSEMBLY INSTRUCTION

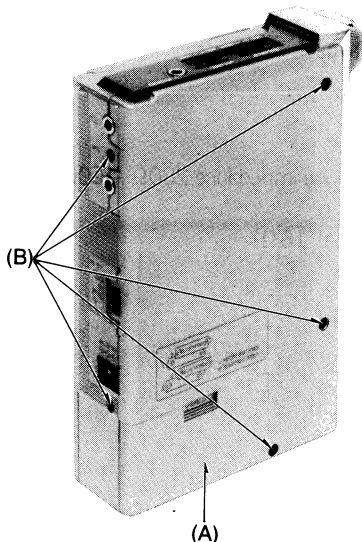


Fig. 1

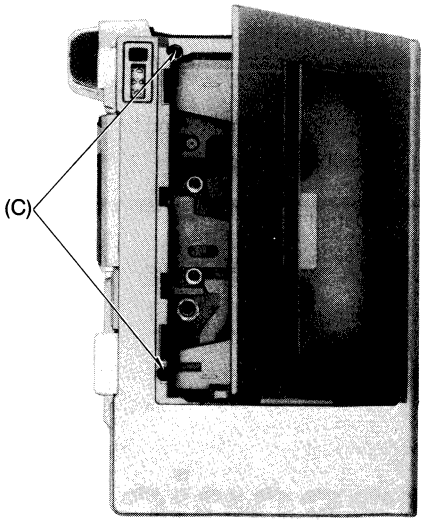


Fig. 2

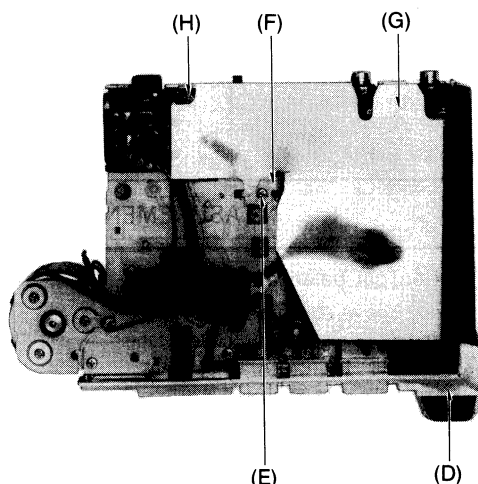


Fig. 3

Ref. No.	Procedure	To remove ———	Remove ———	Shown in fig. ———
1	1	Bottom case assembly	<ul style="list-style-type: none"> • Battery cover (A) • 5 black screws (B) 	1 1
2	1→2	Main case assembly and jack board assembly	<ul style="list-style-type: none"> • 2 black screws (C) 	2
3	1→2→3	Main circuit board	<ul style="list-style-type: none"> • Front panel (D) • 1 screw (E) • P.B. holding angle (F) • Shield plate (G) • 1 screw (H) 	3 3 3 3 3

CHIP PARTS REPAIR PROCEDURE

(transistor, diode, resistor and capacitor, etc.)

A. Removal

1. Remove all solder from both ends of chip using a solder sucker (RP8062) or desoldering wick.
2. While the chip is hot remove it by turning with tweezers as shown in fig. 1.
 - * Make sure that the unit is turned OFF when checking the resistance and polarity of a chip.

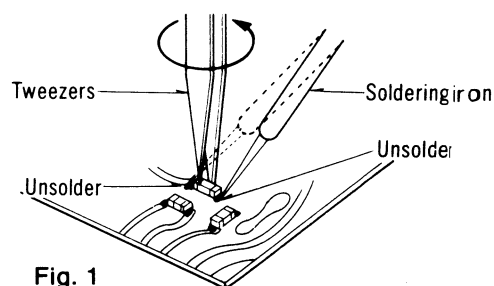


Fig. 1

B. Mounting

Place solder on the foil chip mounting, and solder the chip while applying the soldering iron in the direction of the arrow, as shown in the diagram (fig. 2).

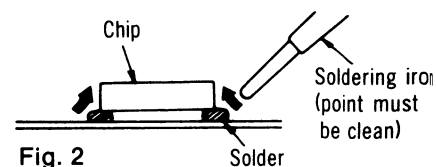


Fig. 2

C. Precautions in mounting the chip

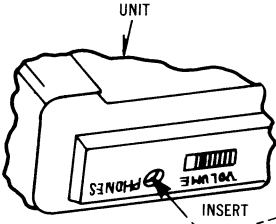
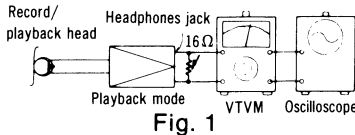
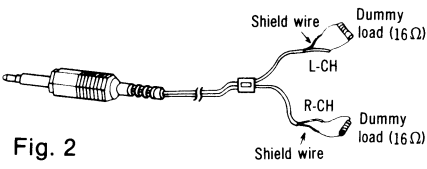
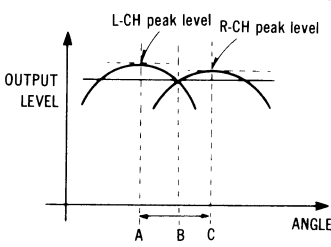
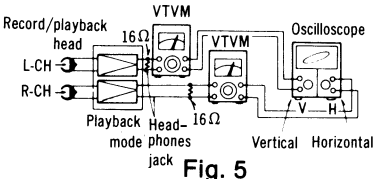
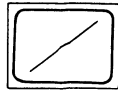
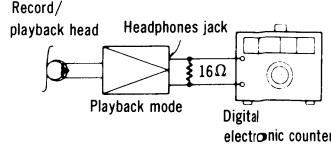
1. Do not heat the chip beyond 3 seconds.
2. Do not rub the electrode.
3. Use tweezers to prevent any damage to the surface.
4. It is recommended that a pencil-type soldering iron be used.
5. Maintain temperature control under 260°C (500°F) when soldering.
 - * Chip resistance (of not more than 100Ω) may vary greatly with the direction of mounting; therefore, mount the white side in the pattern side.
6. Do not re-use the tantalum capacitors or ceramic capacitors after removal (use new components).
7. Do not subject the components (chips) to excessive stress.

MEASUREMENT AND ADJUSTMENT METHODS

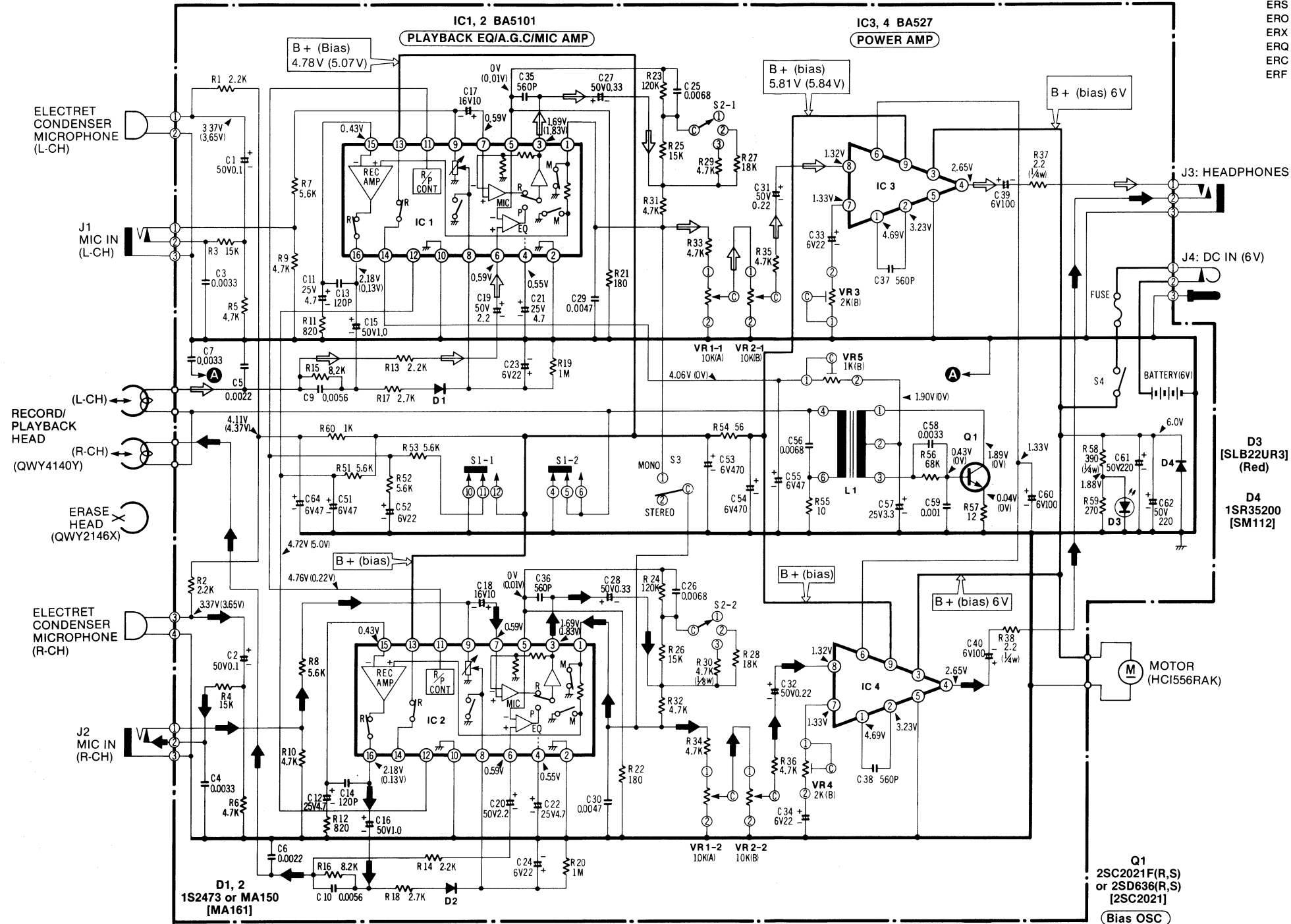
NOTES:

- Make sure heads are clean.
- Make sure capstan and pressure roller are clean.
- Judgeable room temperature: $20 \pm 5^\circ\text{C}$ ($68 \pm 9^\circ\text{F}$)

- Playback equalizer/tone control switch: Normal H position
- Mode select switch: STEREO
- Balance control: "0" position

ITEM	MEASUREMENT & ADJUSTMENT
<p>Head azimuth adjustment</p> <p>Condition:</p> <ul style="list-style-type: none"> * Playback mode <p>Equipment:</p> <ul style="list-style-type: none"> * VTVM * Oscilloscope * Test tape (azimuth) ... QZZCFM 	<p>L-CH/R-CH output balance adjustment</p> <ol style="list-style-type: none"> 1. Make connections as shown in fig. 1 and 2. 2. Playback the 8kHz signal from the test tape (QZZCFM). Adjust screw (A) in fig. 3 for maximum output L-CH and R-CH levels. When the output levels of L-CH and R-CH are not at maximum at the same time, readjust as follows. 3. Turn the screw shown in fig. 3 to find angles A and C (points where peak output levels for left and right channels are obtained). Then, locate the angle B between angles A and C, i.e., a point where L-CH and R-CH output levels come together at maximum. (Refer to figs. 3 and 4.)   <p>Fig. 1</p>  <p>Fig. 2</p> <p>L-CH/R-CH phase adjustment</p> <ol style="list-style-type: none"> 4. Make connections as shown in fig. 2 and 5. 5. Playback the 8kHz signal from the test tape (QZZCFM). Adjust screw (A) shown in fig. 3 so that pointers of the two VTVMs swing to maximum and a waveform as illustrated in fig. 6 is obtained on the oscilloscope.  <p>Fig. 4</p>  <p>Fig. 5</p>  <p>Fig. 6</p>
<p>Tape speed accuracy adjustment</p> <p>Condition:</p> <ul style="list-style-type: none"> * Playback mode <p>Equipment:</p> <ul style="list-style-type: none"> * Digital electronic counter or frequency counter * Test tape ... QZZCWAT 	<p>Tape speed accuracy</p> <ol style="list-style-type: none"> 1. Test equipment connection is shown in fig. 2 and 7. 2. Playback test tape (QZZCWAT 3,000Hz), and supply playback signal to frequency counter. 3. Take measurement at middle section of test tape. 4. Measure this frequency. 5. On the basis of 3,000Hz, determine value by following formula: $\text{Tape speed accuracy} = \frac{f - 3,000}{3,000} \times 100 (\%)$ <p>where, f = measured value</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Standard value: $\pm 2.5\%$</p> </div> <ol style="list-style-type: none"> 6. If measured value is not within standard, adjust tape speed adjustment VR (shown in electrical parts location), so that frequency becomes 3,000Hz.  <p>Fig. 7</p>

SCHEMATIC DIAGRAM



NOTES: RESISTORS

ERDCarbon
ERGMetal-oxide
ERSMetal-oxide
EROMetal-film
ERXMetal-film
ERQFuse type metallic
ERCSolid
ERFCement

CAPACITORS

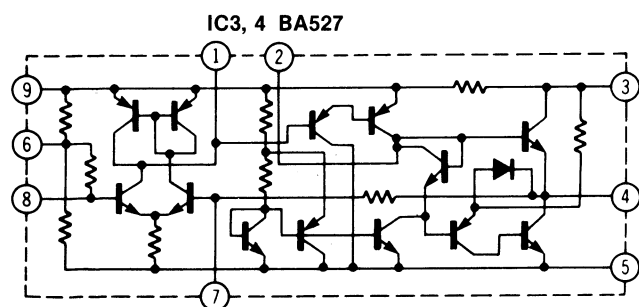
ECBACeramic
ECGCeramic
ECKCeramic
ECCCeramic
ECFCeramic
ECQMPolyester film
ECQEPolyester film
ECQFPolypropylene
ECEDElectrolytic

ECEONNon polar electrolytic
ECQSPolystyrene
ECSDTantalum
QCSTantalum
CHIP RESISTORS
RRDCarbon
CHIP CAPACITORS
QCUDCeramic
ECSETantalum

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Ref. No.	Part No.
RESISTORS		CAPACITORS	
R1, 2	RRD18XJ222	C1, 2	ECEA1HK0R1
R3, 4	RRD18XJ153	C3, 4	QCUT1H332KRL
R5, 6	RRD18XJ472	C5, 6	QCUT1H222KRL
R7	RRD18XJ562	C7	QCUT1H332MRL
R8	ERD10TJ562	C9, 10	QCUT1H562KRL
R9, 10	RRD18XJ472	C11, 12	ECEA1EK4R7
R11	RRD18XJ821	C13, 14	QCUT1H121KCL
R12	ERD10TJ821	C15, 16	ECEA1HK010
R13, 14	RRD18XJ222	C17, 18	ECEA1CK100
R15	RRD18XJ822	C19, 20	ECEA1HK2R2
R16	ERD10TJ822	C21, 22	ECEA1EK4R7
R17	ERD10TJ272	C23, 24	ECEA0JK220
R18	RRD18XJ272	C25, 26	QCUT1H682KRL
R19, 20	RRD18XJ105	C27, 28	ECEA1HKR33
R21, 22	RRD18XJ181	C29, 30	QCUT1H472KRL
R23	ERD10TJ124	C31, 32	ECEA1HKR22
R24	RRD18XJ124	C33, 34	ECEA0JK220
R25, 26	RRD18XJ153	C35, 36, 37, 38	QCUT1H561MRL
R27, 28	RRD18XJ183	C39, 40	ECEA0JK101
R29	RRD18XJ472	C51	ECEA0JK470
R30, 31	ERD10TJ472	C52	ECEA0JK220
R32, 33, 34, 35, 36	RRD18XJ472	C53, 54	ECEA0JS5471
R37, 38	ERD25FJ2R2	C55	ECEA0JK470
R51	ERD10TJ562	C56	ECFDD682KBL
R52, 53	RRD18XJ562	C57	ECEA1EK3R3
R54	RRD18XJ560	C58	QCUT1H332KRL
R55	RRD18XJ100	C59	QCUT1H102KRL
R56	RRD18XJ683	C60	ECEA0JK101
R57	RRD18XJ120	C61, 62	ECEA1HSS221
R58	ERD25FJ391	C64	ECEA0JK470
R59	ERD10TJ271	TRANSISTOR	
R60	RRD18XJ102	Q1	2SC2021
CHIP JUMPERS		DIODES	
JP1, 2, 3	RRD18XK000	D1, 2	MA161
VARIABLE RESISTORS		D3	SLB22UR3
VR1	EVUCAAT65A14	D4	SM112
VR2	EVUCBAT65679	INTEGRATED CIRCUITS	
VR3, 4	EVNB3AA00B23	IC1, 2	BA5101
VR5	EVNB3AA00B13	IC3, 4	BA527

EQUIVALENT CIRCUIT



NOTES:

- S1-1, S1-2Record/playback select switch (shown in playback position).
- S2-1—S2-2Tape select switch (shown in NORMAL-Hi position).
 - ①.....Normal-Hi
 - ②.....Normal-Low & Metal-Hi
 - ③.....Metal-Low
- S3Mode select switch (shown in STEREO position).
 - ①.....STEREO, ②.....MONO
- S4Power ON/OFF switch (shown in OFF position).
- VR1-1, 1-2Volume control.
- VR2-1, 2-2Balance control.
- VR3, 4Playback gain adjustment VR.
- VR5Bias current adjustment VR.
- Resistance are in ohms (Ω), 1/8 watt unless specified otherwise. 1 K = 1000(Ω), 1 M = 1000 K(Ω).
- Capacity are in microfarads (μ F) unless specified otherwise. P = Pico-farads.
- All voltage values shown in circuitry are under no signal condition and record mode with volume control at minimum position. However, the voltage in playback mode is indicated in () when it differs from that in record mode.
- For measurement, use VTVM.

- (\rightarrow) this arrow indicates the flow of the playback signal.
- (\rightarrow) this arrow indicates the flow of the recording signal.
- Described in the schematic diagram are two types of numbers; the supply parts number and production parts number for transistors and diodes. One type of number is used for supply parts number and production parts number when they are identical.

e.g. Q1

2SC2021F(R,S) — Production parts number
or 2SD636(R,S)

[2SC2021] — Supply parts number

D4

1S2473 — Production parts number

or MA150

[MA161] — Supply parts number

- The supply parts number is described alone in the replacement parts list.

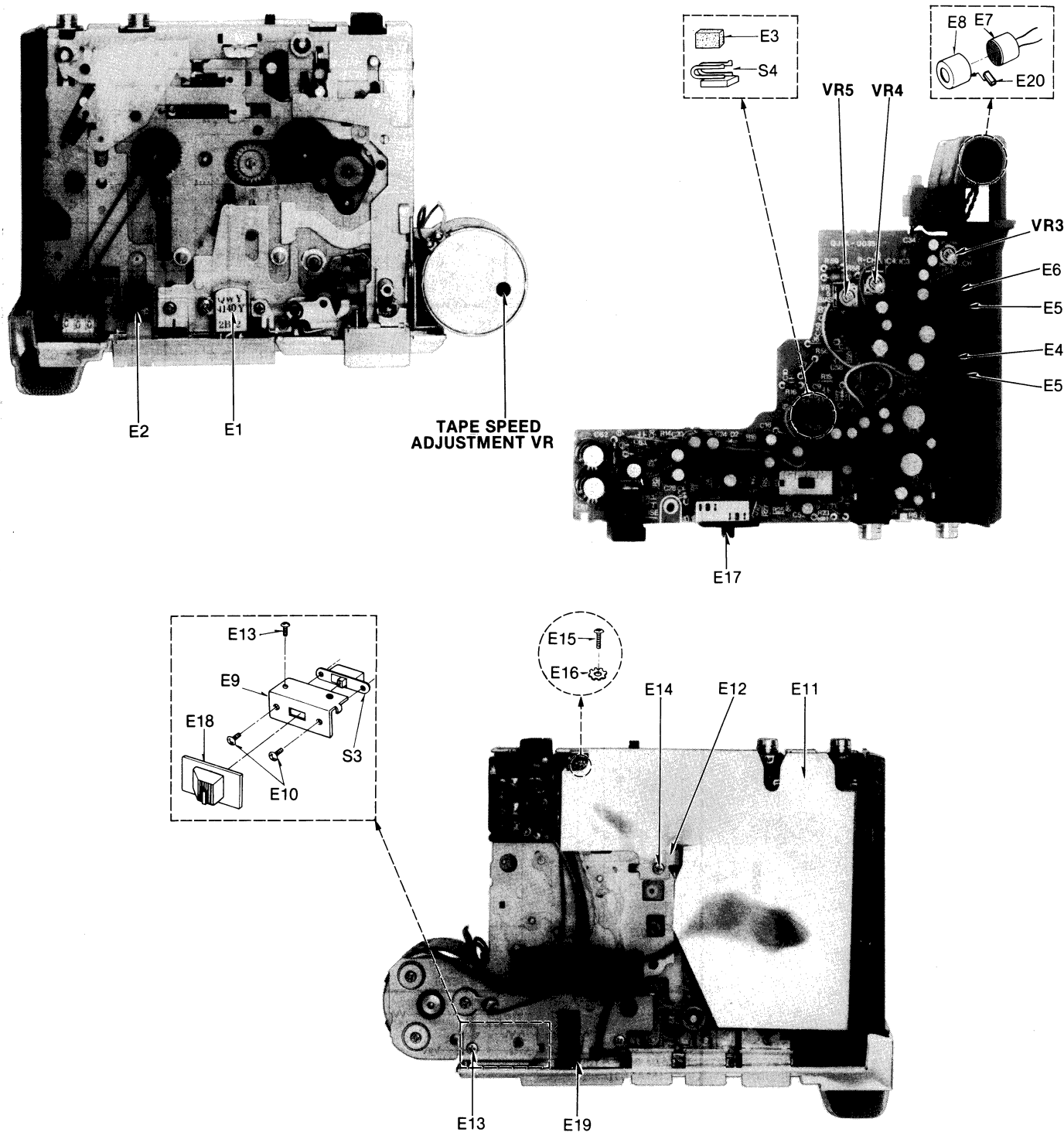
- This schematic diagram may be modified at any time with the development of new technology.

SPECIFICATIONS

Bias oscillation frequency	35 \pm 5 kHz
Standard recording input level	1 kHz: -72 ± 4 dB MIC:
Overall frequency response	150 Hz: -3 ± 5 dB 1 kHz: 0 dB 6 kHz: -2 ± 6 dB

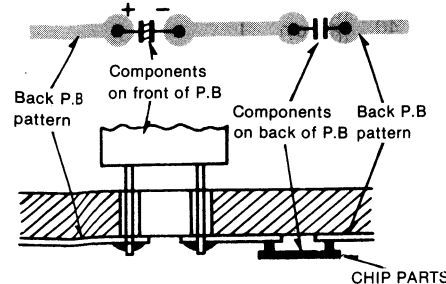
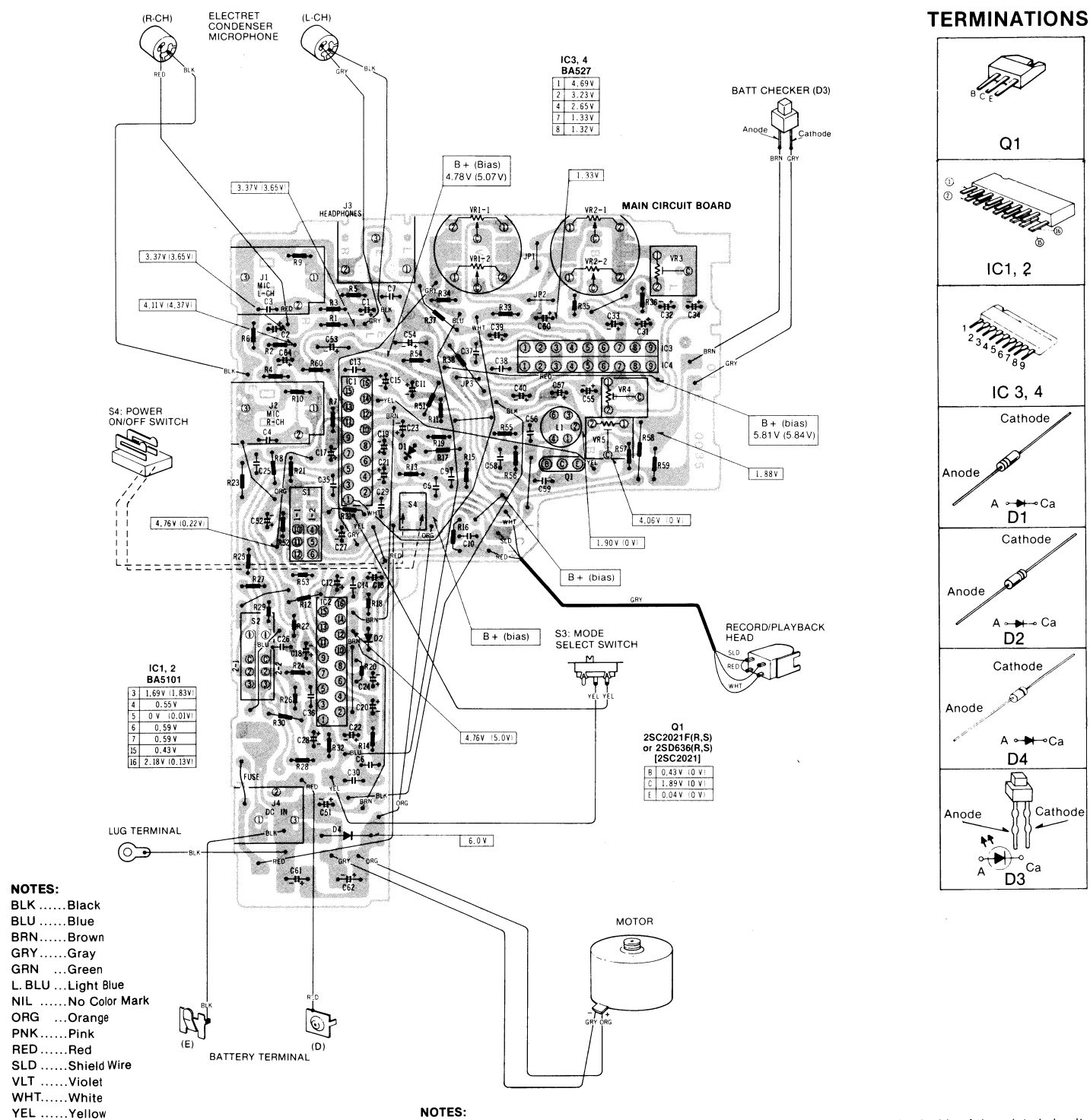
ITEM	MEASUREMENT & ADJUSTMENT											
Playback frequency response Condition: * Playback mode Equipment: * VTVM * Oscilloscope * Test tape ... QZZCFM	<ol style="list-style-type: none">Test equipment connections is shown in fig. 1 and 2.Playback frequency response test tape (QZZCFM).Measure output level at 315Hz, 125Hz, 1 kHz, 4 kHz, 8kHz and compare each output level with standard frequency 315Hz, at the headphones jack.Make measurement for both channels.Make sure that the measured value is within the range specified in the frequency response table (shown in fig. 8).	Playback frequency response table <table><tr><td>125 Hz</td><td>- 2 ± 4 dB</td></tr><tr><td>315 Hz</td><td>0 dB</td></tr><tr><td>1 kHz</td><td>0 ± 4 dB</td></tr><tr><td>4 kHz</td><td>-1.0 ± 4 dB</td></tr><tr><td>8 kHz</td><td>-1.5 ± 5 dB</td></tr></table> Fig. 8	125 Hz	- 2 ± 4 dB	315 Hz	0 dB	1 kHz	0 ± 4 dB	4 kHz	-1.0 ± 4 dB	8 kHz	-1.5 ± 5 dB
125 Hz	- 2 ± 4 dB											
315 Hz	0 dB											
1 kHz	0 ± 4 dB											
4 kHz	-1.0 ± 4 dB											
8 kHz	-1.5 ± 5 dB											
Playback gain Condition: * Playback mode * Volume control: MAX * Balance control: "0" position Equipment: * VTVM * Oscilloscope * Test tape ... QZZCFM	<ol style="list-style-type: none">Test equipment connection is shown in fig. 1 and 2.Playback standard recording level portion on test tape (QZZCFM 315Hz, 0dB), and using VTVM measure the output level at the headphones jack.Make measurement for both channels. <div>Standard value: around 0.68V</div> Adjustment <p>If measured value is not standard, adjust VR3 (L-CH), VR4 (R-CH) (shown in electrical parts location).</p>											
Bias current adjustment Condition: * Record mode Equipment: * VTVM * Oscilloscope	<ol style="list-style-type: none">Test equipment connection is shown in fig. 9.Place the unit into the record mode.Read voltage on VTVM and calculate bias current by the following formula: $\text{Bias current (A)} = \frac{\text{Value read on VTVM (V)}}{10 (\Omega)}$<div>Standard value: around 0.75mA</div>If measured value is not within standard value, make adjustment by turning VR5.	Fig. 9										

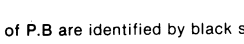

ELECTRICAL PARTS LOCATION



REPLACEMENT PARTS LIST					
Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
ELECTRICAL PARTS					
E1	QWY4140Y	Record/Playback Head	E10	XSN2+3	Screw ±2×3
E2	QWY2146X	Erase Head	E11	QTSAA0018	Shield Plate
E3	QBMA0014	Cushion-B	E12	QMA4354	P.B Holding Angle
E4	QGT1596	Volume Knob	E13	XQN2C3FN	Screw ±2×3
E5	XQN17B28FZ	Screw ±1.7×2.8	E14	XQN2C6FN	Screw ±2×6
E6	QGT1597	Balance Volume Knob	E15	XSN2+4	Screw ±2×4
E7	WM034AZ	Electret Condenser Microphone	E16	XWC2B	Washer 2φ
E8	QBG1725	Microphone Rubber	E17	QKJA0042	Switch Shelter
E9	QMA4445	Switch Angle	E18	QGT1595	Mode Select Knob
			E19	QBMA0016	Cushion
			E20	QBMA0014	Cushion-B

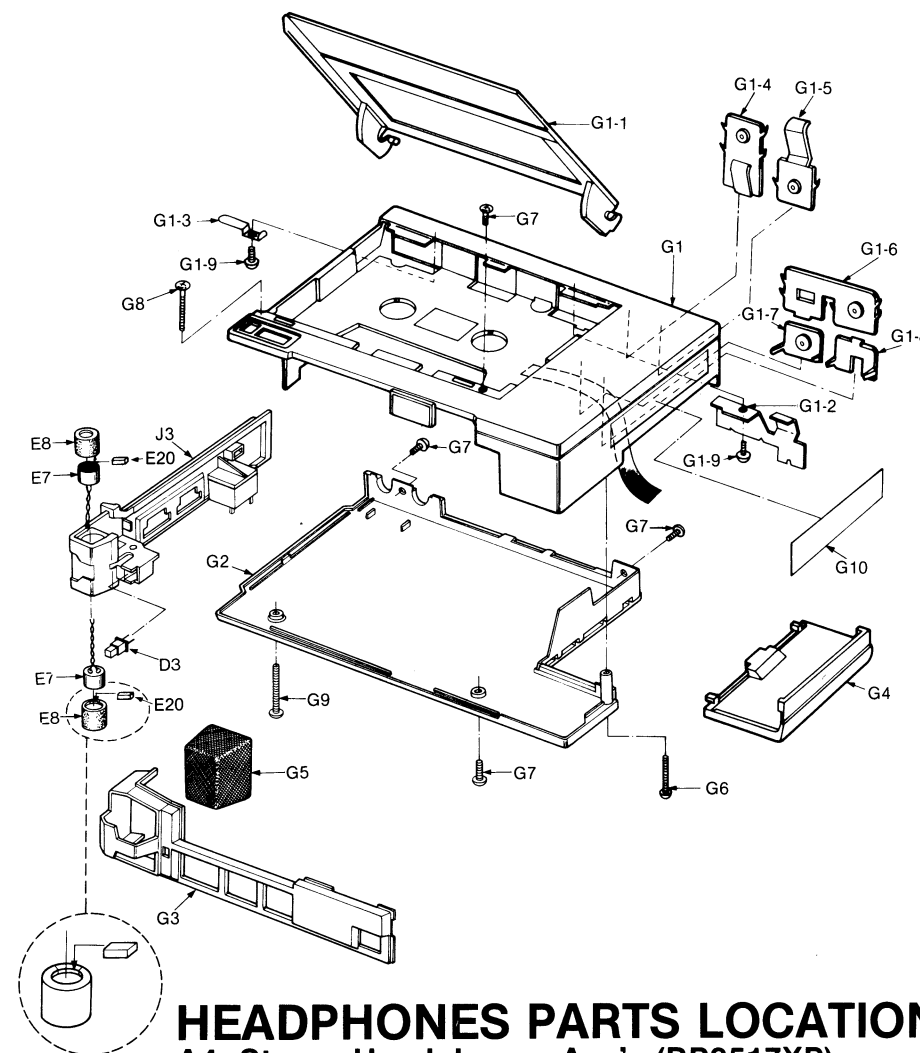
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



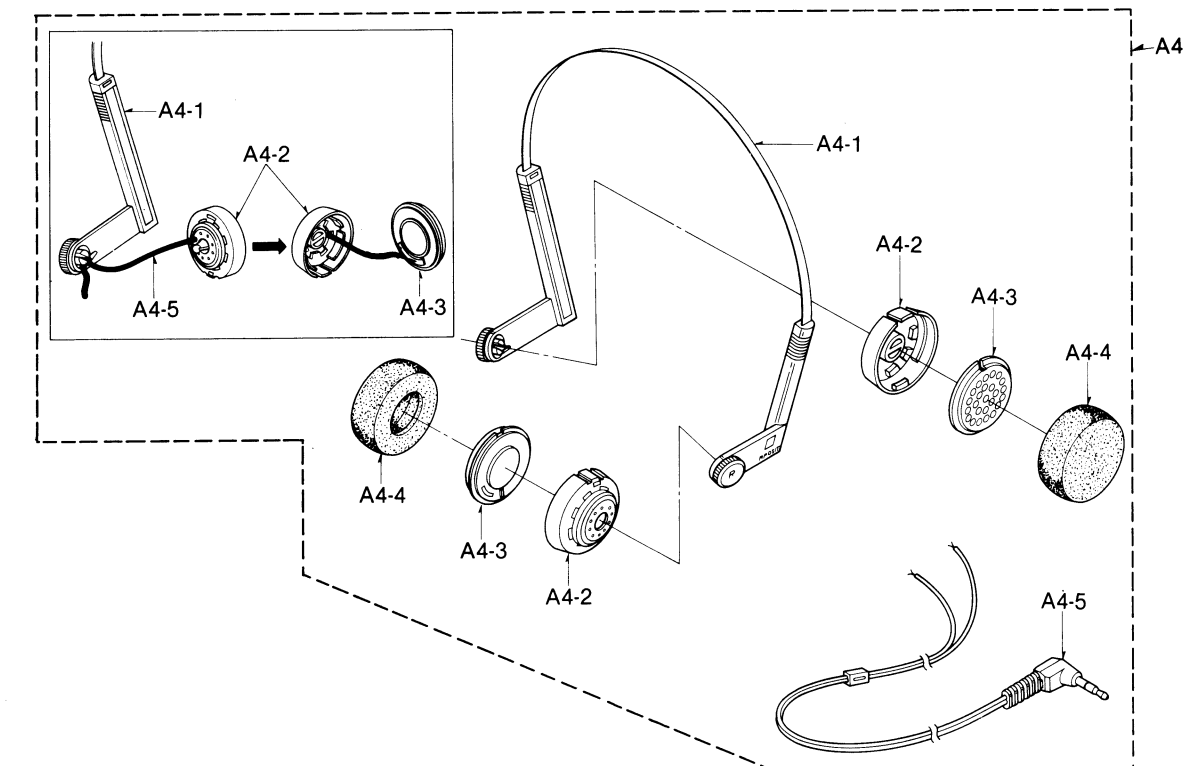
- NOTES:**
- This circuit shown in  on the conductor indicates printed circuit on the back side of the printed circuit board (chip side).
 - Components on front of P.B are identified by black symbols.
 - Components on back of P.B are identified by red symbols.
 - Values indicated in  are under no signal condition and record mode with volume control at minimum position.
However, the voltage in playback mode is indicated in () when it differs from that in record mode.
For measurement, use VTVM.
 - Described in the circuit board diagram are two type of numbers; the supply parts number and production parts number for transistor.
One type of number is used for supply parts number and production parts number when the are identical.
e.g. Q1, 2

2SC2412F(R,S)	— Production parts number
or 2SC636(R,S)	
[2SC2012]	— Supply parts number
 - The supply parts number is described alone in the replacement parts list.
- This circuit board diagram may be modified at any time with the development of new technology.**

CABINET PARTS LOCATION



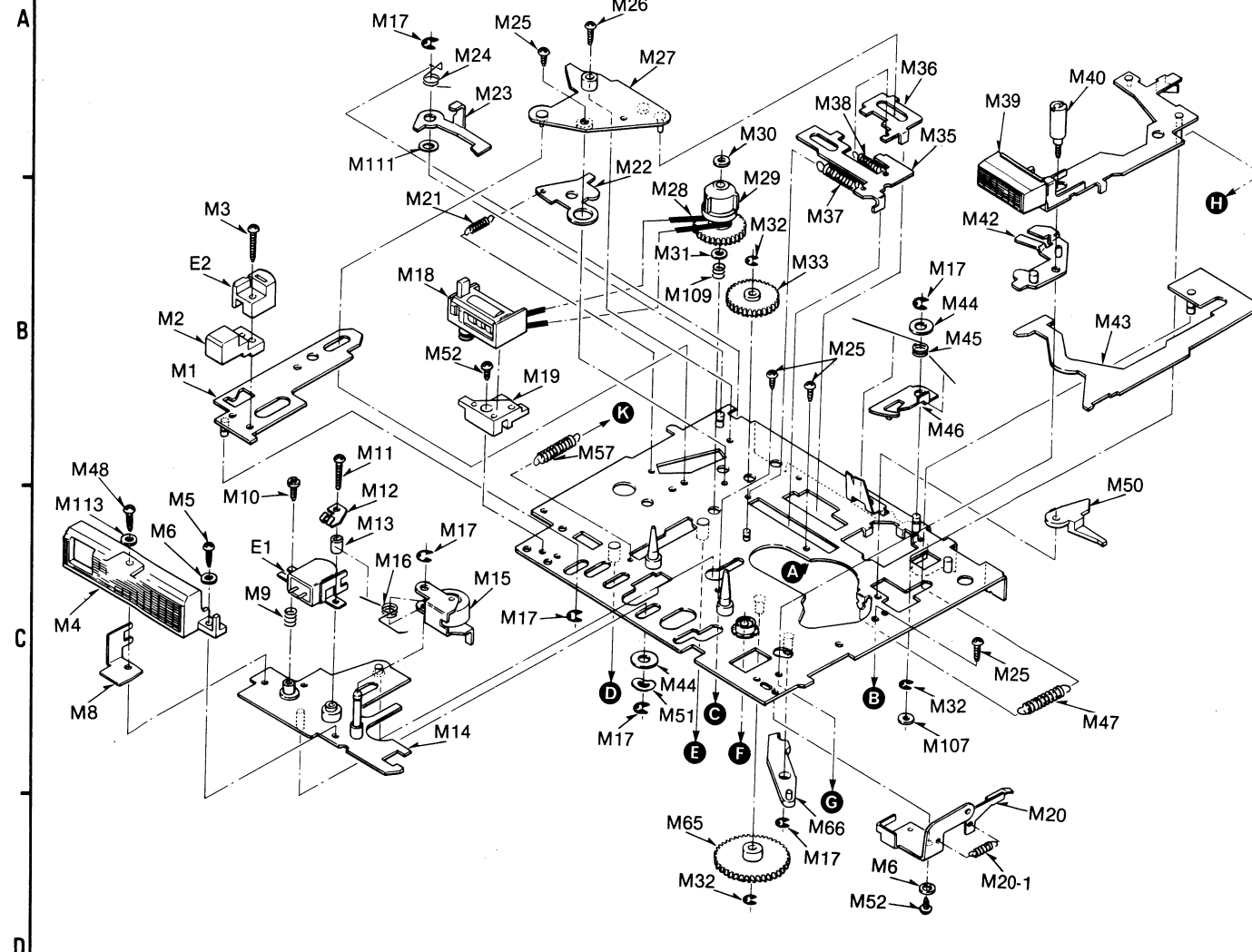
HEADPHONES PARTS LOCATION



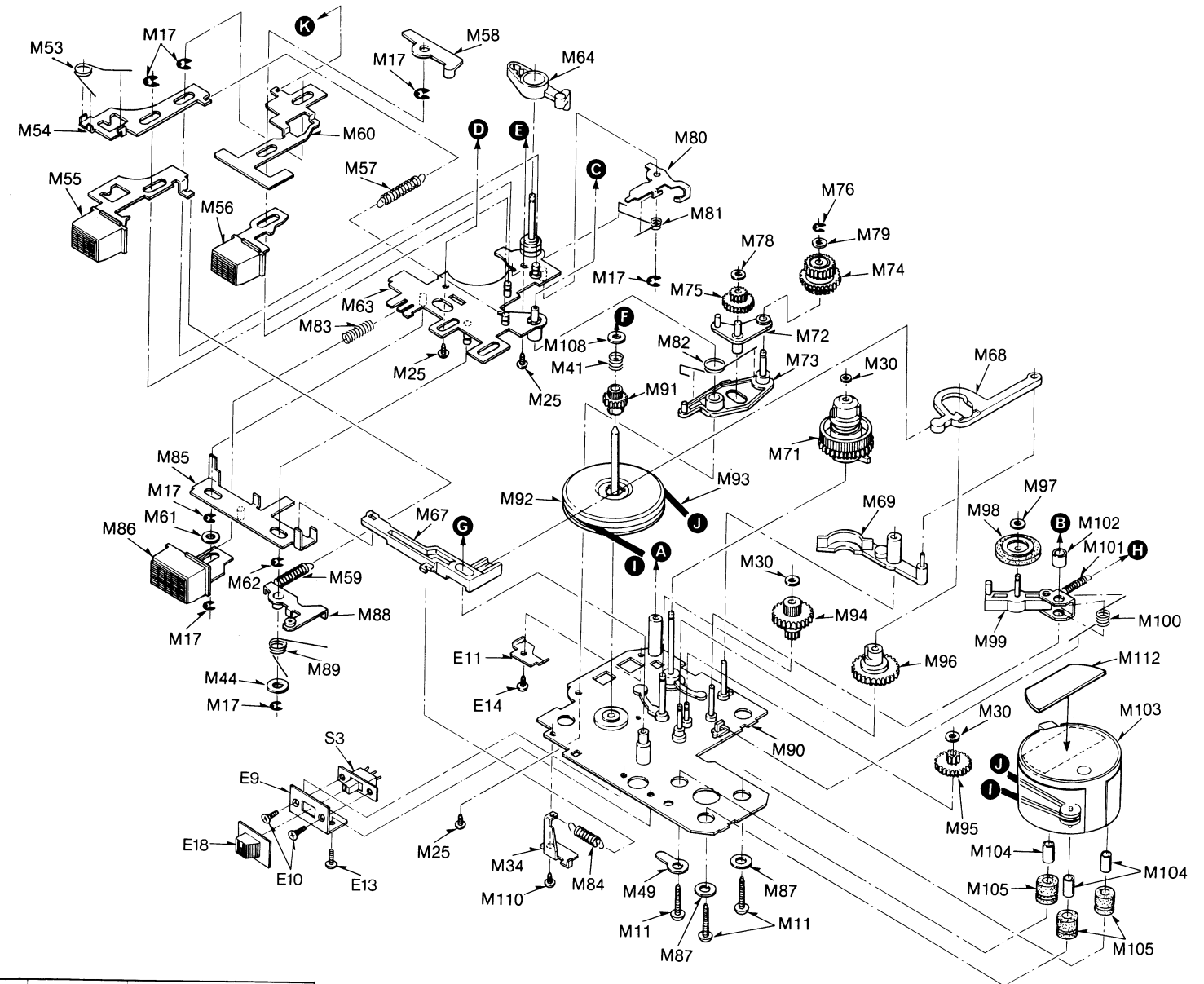
REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description
<u>CABINET PARTS</u>		
G1	QYMA0175H	Main Case Assembly
G1-1	QYFA0039H	Cassette Lid Assembly
G1-2	QBPI1941	Cassette Lid Spring
G1-3	QMA4462	Cassette Lid Holding Angle
G1-4	QJB0152	Battery Terminal-A
G1-5	QJB0153	Battery Terminal-B
G1-6	QJB0154	Battery Terminal-C
G1-7	QJB0155	Battery Terminal-D
G1-8	QJB0156	Battery Terminal-E
G1-9	XTN2+6BFZ	Tapping Screw +2×6
G2	QYMA0175H	Bottom Case Assembly
G3	QGPA0009	Front Panel
G4	QKFA4001H1	Battery Cover
G5	QGKA0111	Microphone Net
G6	XTS2+20BFZ	Tapping Screw +2×20
G7	XSX2+6BV	Screw +2×6
G8	XSN2+14	Screw +2×14
G9	XSN2+18	Screw +2×18
G10	QGSA0078	Main Name Plate
<u>ACCESSORIES</u>		
A1	QQT3305	Instruction Book
A2	QJP0959	Erase Plug
A3	QKFA0065	Carring Bag
A4	RP9517XP	Stereo Headphones Assembly
A4-1	QYQ0310	Headphone: Band Assembly
A4-2	QKJ0530	Housing
A4-3	QYM0772	Speaker Assembly
A4-4	QBM1309	Ear Pad
A4-5	QEB0156	Headphones Cord
A5	ZQC0015	Shoulder Bet
<u>PACKINGS</u>		
P1	QPNA0160	Inside Carton
P2	QPA00080	Cushion
P3	XZB16X27A02	Poly Bag (for UNIT)
P4	QPA00081	Pad

MECHANICAL PARTS LOCATION (Front View)



(Rear View)



REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
MECHANICAL PARTS			M27	QMH2080	Rod Holder	M54	QMR2015	Playback Rod	M84	QBT1901	Lock Plate Spring
M1	QXK2530	Erase Head Base Plate Assembly	M28	QDB0310	Counter Belt	M55	QXB0756	Rewind Button Assembly	M85	QXR0776	Lock Plate Assembly
M2	QGO1930	Record Button	M29	QXD0116	Supply Reel Table Assembly	M56	QXB0757	Fast Forward Button Assembly	M86	QXB0755	Stop Button Assembly
M3	XSN2+10	Screw + 2×10	M30	QBW2008	Snap Washer	M57	QBT1900	Playback Rod Spring	M87	XWE2A7	Washer
M4	QGO1929S	Playback Button	M31	QBKA0006	Washer	M58	QML3635	Cue Lever-B	M88	QXL1375	Cue Lever-A Assembly
M5	XSN2+5	Screw + 2×5	M32	XUC15FT	Stop Ring	M59	QBT1906	Rewind Rod Spring	M89	QBN1763	Cue Lever Spring
M6	XWA2B	Washer 2φ	M33	QDG1212	Gear (8)	M60	QMR1947	Fast Forward/Rewind Rod	M90	QXK2532	Lower Base Plate Assembly
M8	QMG0101	Tape Guide	M34	QMA4294	Lock Plate Spring Angle	M61	QBJA3025	Washer	M91	QDG1205	Gear (1)
M9	QBC1339	Head Spring	M35	QMR2024	Switch Rod-A	M62	XUC25FT	Stop Ring	M92	QXF0179	Flywheel Assembly
M10	XSBQ2D45	Head Adjustment Screw	M36	QMR2025	Switch Rod-B	M63	QXH0414	Button Holder Assembly	M93	QDB0283	Flywheel Belt
M11	XSN2+8	Screw + 2×8	M37	QBT1904	Switch Rod Spring-A	M64	QML3804	Switch Lever	M94	QDG1207	Gear (3)
M12	QTD1300	Wire Clamper	M38	QBT1905	Switch Rod Spring-B	M65	QDG1255	Gear (2)	M95	QDG1208	Gear (4)
M13	QMC0142	Head Collar	M39	QXR0791	Pause Rod Assembly	M66	QML3857	Idle Driving Lever	M96	QDG1209	Gear (5)
M14	QXK2528	Head Base Plate Assembly	M40	QMP1822	Pause Rod Guide	M67	QMR1949	Lock Release Rod	M97	QBW2030	Washer
M15	QXL1455	Pressure Roller Lever Assembly	M41	QBC1406	Capstan Spring	M68	QML3632	Auto-Stop Detection Lever-B	M98	QX10114	Takeup Idler Assembly
M16	QBN1869	Pressure Roller Lever Spring	M42	QXL1427	Pause Lever Assembly	M69	QML1374	Auto-Stop Detection Lever-A	M99	QXL1387	Idler Lever Assembly
M17	XUC2FT	Stop Ring 2φ	M43	QXR0755	Eject Rod Assembly	M70	QXD0115	Takeup Reel Table Assembly	M100	QBN1762	Idler Spring
M18	QDG0129	Tape Counter	M44	XWE3A7	Poly Washer	M71			M101	QBT1903	Pause Rod Spring
M19	QMG1279	Counter Table	M45	QBN1872	Pause Lock Plate Spring	M72	QXL1377	Fast Forward Lever-A Assembly	M102	QMC0106	Collar
M20	QXK2534	Head Base Plate Holding Angle Assembly	M46	QML3626	Pause Lock Plate	M73	QXL1378	Fast Forward Lever-B Assembly	M103	HCI556RAK	Motor Assembly
M20-1	QBT1898	Eject Lever Spring	M47	QBT1926	Eject Rod Spring	M74	QXG1049	Fast Forward Gear Assembly	M104	QMC0141	Motor Collar
M21	QBT1902	Record Rod Spring	M48	XSN2+4	Screw + 2×4	M75	QDG1210	Gear (6)	M105	QBG1727	Motor Rubber
M22	QML3623	Record Rod	M49	QTD0004	Lug Terminal	M76	XUC12FT	Stop Ring 1.2φ	M107	QBW2042	Washer
M23	QML3803	Erase Safety Metal	M50	QML3638	Auto Safety Lever	M77	QBW2010	Washer	M108	QBJ3098	Washer
M24	QBN1871	Erase Safety Metal Spring				M78	QXG1049	Washer	M109	QBC0010	Back Tension Spring
M25	XQN16B3FZ	Screw + 1.6×3	M51	QBP1519	Spring Washer	M79	QBJA3014	Gear Lever	M110	XQN2C3FN	Screw
M26	XQN16B5FZ	Screw + 1.6×5	M52	XSN2+3	Screw + 2×3	M80	QML3648	Gear Lever Spring	M111	QBJA3026	Washer
			M53	QBN1765	Head Base Plate Spring	M81	QBN1870	Fast Forward Lever Spring	M112	QTS00020	Shield Plate
						M82	QBN1764	Stop Button Spring	M113	XWG2	Washer 2φ

When servicing this mechanism unit, refer to the disassembly notes and assembly instructions described in the service manuals of RQ-337, RS-J3, RQ-335A and RQ-J5 (RQ-335 mechanism series).

SPECIFICATIONS

Pressure of pressure roller	300 ± 50 g
Takeup tension • Use cassette torque meter ... QZZRKCT	40 ± 15 - 10 g-cm
Wow and flutter: JIS • Use test tape ... QZZCWAT	Less than 0.48% (RMS)